Chloride and TOC concentrations are higher in the vicinity of WCC-03S and TMW-2 (the primary TCE and 1,1-DCE source area). Nitrate values are depressed in the same vicinity. Only sporadic concentrations of methane were measured and concentrations of ethane and ethene were not detected in any of the analyzed samples.

5.0 QUALITY CONTROL/QUALITY ASSURANCE

5.1 Field Quality Control Samples

5.1.1 Field Duplicates

Duplicate samples were analyzed for VOC concentrations from WCC-07S, WCC-11S, WCC-12S, and TMW-04. These results are included on Table 4. Generally, in evaluating the relative percent difference (RPD) between the sample data and the duplicate data, only samples with concentrations that are five times or greater than the detection limit are analyzed. There is one duplicate from the validated data that is suspect: the 1,1-DCE concentration measured in groundwater collected from TMW-04. The RPD for this sample is 200%. The RPD for all other detected constituents is less than 10%. One duplicate from the non-validated data, the 1,1-DCE concentration measured in groundwater collected from WCC-07S, had an RPD of 42%. The RPD for all other detected constituents is less than 5%.

Duplicate samples were analyzed for dissolved metals and hexavalent chromium at WCC-07S and TMW-04. These results are included on Table 6. In reviewing that data, the only duplicate from the verified data that is suspect is the barium concentration measured in groundwater collected from TMW-4. The RPD for barium is 100%.

5.1.2 Field Blanks

Furnished data including Chain-of-Custody reports did not include any trip blank, equipment blank, or field blank information, as required by the work plan. Measures will be taken to ensure future sampling events include these samples.

5.2 Laboratory QA/QC Samples

Final laboratory-certified reports and quality control procedures are included on the CD as Appendix B. Data validation results are provided in Appendix C.

6.0 CONCLUSIONS

Groundwater levels have decreased beneath the BRC Former C-6 facility since the last sampling event by less than 0.5 feet. The hydraulic gradient beneath the site remains relatively low, decreasing during this monitoring event from 0.0013 to 0.0011 ft/ft to the south.